	TYPE OF		1	RENEWAL DATE	SUPERVISOR
TITLE OF TRAINING	TRAINING REQUIRED	WHEN REQUIRED	DURATION	IF APPLICABLE	LEAD SIGN-OFF
POSITION DESCRIPTION: Project Manager					
Project Management A/B or 5yr. equivalent OJT	Administrative/OJT	Upon Entry	2 weeks		
Resident Mgmt. Ed. Program	Administrative	Upon Entry	2 weeks		
Mgmt. Education Program	Administrative	Within 6 months	2 weeks		
CLCS Orientation or familiarization with CLCS processes					
CLCS Orientation of familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: Deputy Project Manager					
Project Management A/B or 5 yr. equivalent OJT	Administrative/OJT	Upon Entry	2 weeks		
Resident Mgmt. Ed. Program	Administrative	Upon Entry	2 weeks		
Mgmt. Education Program	Administrative	Within 6 months	2 weeks		
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
OLOG CHARLANDI OF TAIRMINIA PLANT WITH OLOG PROCESSES	/ tarriiriistrative/ ee i	Within 4 months	2 110013		
POSITION DESCRIPTION: Technical Assistant					
Resident Mgmt. Ed. Program	Administrative	Within 6 months			
2 yr. Project Mgmt. OJT	OJT	Upon Entry			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: Secretary					
Demonstrated Admin Skills	OJT	Upon Entry			
Skills in Office Automation with emphasis on presentations	OJT	Upon Entry			
3 mo OJT in a NASA Office	OJT	Upon Entry			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
·					
POSITION DESCRIPTION: User Liaison					
Detailed Knowledge of CLCS System Level Specification	OJT	Within 2 months			
Demonstrated knowledge of current Launch Processing System	OJT	Upon Entry			
1 yr Console Experience	OJT	Upon Entry			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		

	TYPE OF			RENEWAL DATE	SUPERVISOR
TITLE OF TRAINING	TRAINING REQUIRED	WHEN REQUIRED	DURATION	IF APPLICABLE	LEAD SIGN-OFF
POSITION DESCRIPTION: Project Controls Chief					
•					
Project Mgmt. A/B	Administrative	Upon Entry	2 weeks		
Program Mgmt. & Control Series or 5 yr equivalent OJT	Administrative	Upon Entry			
Resident Mgmt. Education	Administrative	Upon Entry	6 months		
Management Education Program	Administrative	Within 1 year	2 weeks		
Config. Mgmt. or 1 yr. OJT	Administrative	Within 6 months			
ISO 9000 Lead Auditor	Administrative	Within 6 months	1 week		
COTR Training	Administrative	Within 6 months			
Performance Measurement Training	Administrative	Within 3 months	2 days		
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: Change Control Manager					
Config. Mgmt. or 1 yr. OJT	Administrative/OJT	Upon Entry			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
OLOG Officitation of familiarization with OLOG processes	Administrative/031	Within 4 months	2 110013		
POSITION DESCRIPTION: Technical Resource Lead					
3 Months Budget/Resource Mgmt OJT	Administrative/OJT	Upon Entry			
Performance Measurement Training	Administrative	Within 3 months	2 days		
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: Technical Resource Analyst					
3 Months Budget/Resource Mgmt	Administrative/OJT	Upon Entry			
Performance Measurement Training	Administrative	Within 6 months	2 days		
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
·					
POSITION DESCRIPTION: Independent Verification and Val	idation (IV&V) Coordinator				
Knowledge of NASA policy related to IV&V	OJT	Within 2 months			
Basic IV&V Techniques	OJT	Within 4 months			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: Webmaster					
Demonstration of Knowledge and Skills	OJT	Upon Entry			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		

	TYPE OF			RENEWAL DATE	SUPERVISOR
TITLE OF TRAINING	TRAINING REQUIRED	WHEN REQUIRED	DURATION	IF APPLICABLE	LEAD SIGN-OFF
0,					
POSITION DESCRIPTION: Procurement and Scheduling Lead					
<b>3</b>					
Credit Card Training	Administrative	Within 3 months	2 hours		
6 Month OJT Procurement Process	OJT	Upon Entry			
Microsoft Project (training or demonstrated ability and knowledge)	Administrative/OJT	Within 4 months			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: Property Control Lead					
New Custodian Orientation by LO-SOD-1 Rep	OJT	Within 2 months			
Knowl. of KSC Sup. to NHB 4200.2 "KSC NASA Equipment Mgmt Sys" (NEMS) Property Custodian Manual	OJT	Within 2 months			
OJT NEMS use	OJT	Within 3 months			
Demo Knowledge of Filemaker Pro	OJT	Within 1 month			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: Training Lead					
Demonstrated ability in oral presentations		Upon Entry			
1 year OJT Training Procedures	OJT	Upon Entry			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: Human Resources Administrator					
1 yr. Administrative specialist activities OJT	OJT	Upon Entry			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: Facility Manager (Lead)					
1 Yr. Project Mgmt. OJT	OJT	Upon Entry			
Construction of Facilities training	Administrative	Within 6 months	4 days		
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: Assistant Facility Manager					
2 months OJT	OJT	Within 2 months			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		

## Checkout and Launch Control System (CLCS) Training Requirements

	TYPE OF			RENEWAL DATE	SUPERVISOR
TITLE OF TRAINING	TRAINING REQUIRED	WHEN REQUIRED	DURATION	IF APPLICABLE	LEAD SIGN-OFF
POSITION DESCRIPTION: Technical Authors					
Demonstrated ability in Technical writing skills		Upon Entry			
CLCS Documentation Requirements	OJT	Within 1 month			
Tech Doc Training	Administrative/OJT	Within 1 month	4 hours		
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		

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	TYPE OF			RENEWAL DATE	SUPERVISOR
TITLE OF TRAINING	TRAINING REQUIRED	WHEN REQUIRED	DURATION	IF APPLICABLE	LEAD SIGN-OFF
POSITION DESCRIPTION: Systems Engineering & Integration C	hief				
Decident Mant Ed Dreaman	Administrative	Within 6 months	1 week		
Resident Mgmt. Ed. Program  Management Education Program	Administrative	Within 1 year	1 week		
<u> </u>		-	i week		
2 year Project Mgmt. OJT	OJT	Upon Entry			
Demonstrated ability in Computer System Architecture	OJT	Upon Entry			
Demonstrated ability in Real Time Operating Systems	OJT	Within 3 months			
Object Oriented Design/Analysis	Technical	As soon as available	1 week		
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
Technical Writing	Administrative	Within 6 months	1 week		
POSITION DESCRIPTION: System Design Lead					
VME (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	3 days		
Unix (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Local Area Network (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Demonstrated ability in Computer Systems Architecture	OJT	Upon Entry			
Detailed Knowledge of CLCS System Level Specification	OJT	Within 2 months			
1 year Project Mgmt. OJT	OJT	Upon Entry			
Object Oriented Design/Analysis	Technical	As soon as available	1 week		
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
Technical Writing	Administrative	Within 6 months	1 week		
POSITION DESCRIPTION: Systems Engineers					
VME (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	3 days		
Unix (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Local Area Network (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
1 0			i week		
Demonstrated ability in Computer Systems Architecture	OJT OJT	Upon Entry Within 2 months			
Detailed Knowledge of CLCS System Level Specification			4		
Object Oriented Design/Analysis	Technical	Within 3 months	1 week		
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	As soon as available	2 hours		
Technical Writing	Administrative	Within 6 months	1 week		

	TYPE OF			RENEWAL DATE	SUPERVISOR
TITLE OF TRAINING	TRAINING REQUIRED	WHEN REQUIRED	DURATION	IF APPLICABLE	LEAD SIGN-OFF
POSITION DESCRIPTION: Software Architects					
VME (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	3 days		
Unix (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Local Area Network (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Demonstrated ability in Computer Systems Architecture	OJT	Upon Entry			
Detailed Knowledge of CLCS System Level Specification	OJT	Within 2 months			
Object Oriented Design/Analysis	Technical	As soon as available	1 week		
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
Technical Writing	Administrative	Within 6 months	1 week		
DOCUTION DECORIDATION III I A LIV.					
POSITION DESCRIPTION: Hardware Architects					
VME (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	3 days		
Unix (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Local Area Network (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Demonstrated ability in Computer Systems Architecture	OJT	Upon Entry			
Detailed Knowledge of CLCS System Level Specification	OJT	Within 2 months			
Demonstrated ability in Hardware Architecture Design or 3 mo. OJT	OJT	Within 3 months			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
Technical Writing	Administrative	Within 6 months	1 week		
POSITION DESCRIPTION: Strategic Engineers					
VME (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	3 days		
Unix (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Local Area Network (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Demonstrated ability in Computer Systems Architecture	OJT	Upon Entry			
Detailed Knowledge of CLCS System Level Specification	OJT	Within 2 months			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
Technical Writing	Administrative	Within 6 months	1 week		

	TYPE OF			RENEWAL DATE	SUPERVISOR
TITLE OF TRAINING	TRAINING REQUIRED	WHEN REQUIRED	DURATION	IF APPLICABLE	LEAD SIGN-OFF
POSITION DESCRIPTION: Integration and Test Lead					
Demonstrated ability in Computer Systems Architecture					
Detailed knowledge of CLCS System Level Specification OJT	OJT	Within 2 months			
Demonstrated Knowledge in Current Launch Processing System	OJT	Upon Entry			
6 mo. System Test OJT	OJT	Upon Entry			
6 mo. Project Mgmt. OJT	OJT	Upon Entry			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
Technical Writing	Administrative	Within 6 months	1 week		
POSITION DESCRIPTION: Integration Engineers					
Demonstrated ability in Computer Systems Architecture					
Detailed knowledge of CLCS System Level Specification OJT	OJT	Within 2 months			
Demonstrated Knowledge in Current Launch Processing System	OJT	Upon Entry			
6 mo. System Test OJT	OJT	Upon Entry			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
Technical Writing	Administrative	Within 6 months	1 week		
POSITION DESCRIPTION: Test Engineers					
Demonstrated ability in Computer Systems Architecture					
Detailed knowledge of CLCS System Level Specification OJT	OJT	Within 2 months			
Demonstrated Knowledge in Current Launch Processing System	OJT	Upon Entry			
6 mo. System Test OJT	OJT	Upon Entry			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
Technical Writing	Administrative	Within 6 months	1 week		
POSITION DESCRIPTION: Delivery Managers					
CLCS Procedures	OJT	Within 3 months	3 hours		
Configuration Management	OJT	Within 3 months	2 hours		
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
Technical Writing	Administrative	Within 6 months	1 week		

	TYPE OF			RENEWAL DATE	SUPERVISOR
TITLE OF TRAINING	TRAINING REQUIRED	WHEN REQUIRED	DURATION	IF APPLICABLE	LEAD SIGN-OFF
POSITION DESCRIPTION: Specialty Engineering Lead					
Demonstrated Knowledge of Human Computer Interfaces or 6 MONTHS OJT	OJT	Upon Entry			
Detailed knowledge of CLCS specification	OJT	Within 3 months			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
Technical Writing	Administrative	Within 6 months	1 week		
POSITION DESCRIPTION: Human Factors Engineers					
Demonstrated Knowledge of Human Computer Interfaces or 6 months OJT	OJT	Upon Entry			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
Technical Writing	Administrative	Within 6 months	1 week		
POSITION DESCRIPTION: Quality Assurance Engineers					
Demonstrated Knowledge of Quality Standards	OJT	Upon Entry			
1 Yr Quality Assurance Activities OJT	OJT	Upon Entry			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
Technical Writing	Administrative	Within 6 months	1 week		
POSITION DESCRIPTION: Security Engineers					
Demonstrated Knowledge of Security Systems	OJT	Upon Entry			
1 yr. Security OJT	OJT	Upon Entry			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
Technical Writing	Administrative	Within 6 months	1 week		
POSITION DESCRIPTION: Safety Engineers					
Demonstrated Knowledge of STS Safety Procedures	OJT	Upon Entry			
1 yr. OJT in Safety	OJT	Upon Entry			
Detailed Knowledge of CLCS Specification	OJT	Upon Entry			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
Technical Writing	Administrative	Within 6 months	1 week		

	TYPE OF			RENEWAL DATE	SUPERVISOR
TITLE OF TRAINING	TRAINING REQUIRED	WHEN REQUIRED	DURATION	IF APPLICABLE	LEAD SIGN-OFF
POSITION DESCRIPTION: Logistics Engineers					
Demonstrated Knowledge of Logistics Operations	OJT	Upon Entry			
1 yr. OJT in Logistics	OJT	Upon Entry			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
Technical Writing	Administrative	Within 6 months	1 week		
POSITION DESCRIPTION: Performance Engineers					
Demonstrated Knowledge of Computer Performance Metric	OJT	Upon Entry			
Detailed Knowledge of CLCS Specification	OJT	Upon Entry			
Demonstrated Knowledge/Ability of Computer Arch Performance		Upon Entry			
Modeling Techniques					
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
Technical Writing	Administrative	Within 6 months	1 week		

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	TYPE OF			RENEWAL DATE	SUPERVISOR
TITLE OF TRAINING	TRAINING REQUIRED	WHEN REQUIRED	DURATION	IF APPLICABLE	LEAD SIGN-OFF
POSITION DESCRIPTION: Subsystem Engineering Chief					
Resident Mgmt. Ed. Program	Administrative	Within 6 months	1 week		
Management Education Program	Administrative	Within 1 year	1 week		
2 year Project Mgmt. OJT	OJT	Upon Entry			
Demonstrated ability in Computer System Architecture	OJT	Upon Entry			
Demonstrated ability in Real Time Operating Systems	OJT	Within 3 months			
Demonstrated ability/knowledge in Local Area Network	OJT	Within 6 months			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: Gateway Lead					
Demonstrated ability in Computer Systems Architecture	OJT	Upon Entry			
Demonstrated ability in Network Protocol	OJT	Upon Entry			
Detailed knowledge of CLCS System level Specification/OJT	OJT	Within 3 months			
1 yr. Project Management or OJT	OJT	Within 6 months			
Demonstrated ability in Vx Works Operating Systems	OJT	Upon Entry			
Demonstrated ability in UNIX Operating Systems	OJT	Within 6 months			
Demonstrated ability in Real Time Operating Systems	OJT	Upon Entry			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: Gateway Development Engineers					
Total Decimal Calcula, Development Engineere					
Demonstrated ability in Computer Systems Architecture	OJT	Upon Entry			
Demonstrated ability in Network Protocol	OJT	Upon Entry			
Detailed knowledge of CLCS System level Specification/OJT	OJT	Within 3 months			
Demonstrated ability/knowledge in Real Time Operating Systems	OJT	Within 1 year			
Demonstrated ability/knowledge in VxWorks Operating System	OJT	Within 6 months			
Demonstrated ability in C and C++ Programming	OJT	Within 6 months			
Demonstrated ability in UNIX Operating Systems	OJT	Within 3 months			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		

	TYPE OF			RENEWAL DATE	SUPERVISOR
TITLE OF TRAINING	TRAINING REQUIRED	WHEN REQUIRED	DURATION	IF APPLICABLE	LEAD SIGN-OFF
POSITION DESCRIPTION: RTPS Network Lead					
Demonstrated ability in Computer Systems Architecture	OJT	Upon Entry			
Demonstrated ability in Network Protocol	OJT	Upon Entry			
Detailed knowledge of CLCS System level Specification/OJT	OJT	Within 3 months			
1 yr. Project Management or OJT	OJT	Within 6 months			
Demonstrated ability in UNIX Operating Systems	OJT	Upon Entry			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: RTPS Network Development Engineer	 rs				
·					
Demonstrated ability in Computer Systems Architecture	OJT	Upon Entry			
Demonstrated ability in Network Protocol	OJT	Upon Entry			
Detailed knowledge of CLCS System level Specification/OJT	OJT	Within 3 months			
Demonstrated ability in UNIX Operating Systems	OJT	Within 6 months			
Demonstrated ability in Real Time Operating Systems	OJT	Within 1 year			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: Support Network Lead					
Demonstrated ability in Computer Systems Architecture	OJT	Upon Entry			
Demonstrated ability in Network Protocol	OJT	Upon Entry			
Detailed knowledge of CLCS System level Specification/OJT	OJT	Within 3 months			
1 yr. Project Management or OJT	OJT	Within 6 months			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
OLOG Officination of familiarization with OLOG processes	Administrative/031	Within 4 months	Z Hours		
POSITION DESCRIPTION: Support Network Development Engin	eers				
Demonstrated ability in Computer Systems Architecture	OJT	Upon Entry			
Detailed knowledge of CLCS System level Specification/OJT	OJT	Within 3 months			
Unix (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Local Area Network (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		

## Checkout and Launch Control System (CLCS) Training Requirements

	TYPE OF			RENEWAL DATE	SUPERVISOR
TITLE OF TRAINING	TRAINING REQUIRED	WHEN REQUIRED	DURATION	IF APPLICABLE	LEAD SIGN-OFF
POSITION DESCRIPTION: Consoles & Platforms Lead					
Demonstrated ability in H/W platform design or 1 yr. OJT	OJT	Upon Entry			
Demonstrated knowledge of human computer interfaces & state of the art tools.	OJT	Upon Entry			
1 yr. project mgmt. or OJT	OJT	Within 6 months			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: Consoles & Platforms Engineers					
Demonstrated ability in H/W platform design or 1 yr. OJT	OJT	Upon Entry			
Demonstrated knowledge of human computer interfaces & state of	OJT	Upon Entry			
the art tools.					
Demonstrated ability in UNIX Operating System	OJT	Within 1 year			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		

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			RENEWAL DATE	SUPERVISOR	
TITLE OF TRAINING	TYPE OF TRAINING REQUIRED	WHEN REQUIRED	DURATION	IF APPLICABLE	LEAD SIGN-OFF
POSITION DESCRIPTION: System Software Chief					
•					
Resident Mgmt. Ed. Program	Administrative	Within 6 months	1 week		
Management Education Program	Administrative	Within 1 year	1 week		
2 year Project Mgmt. OJT	OJT	Upon Entry			
Applied experience in Real Time Command & Control Systems Design & Architecture	OJT	Upon Entry	3 years		
Applied experience in Software Development Methodology	OJT	Upon Entry	3 years		
Applied experience in Design & Development Team Management	OJT	Upon Entry	3 years		
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POOLETON DECORIDETION Continue Continue Land					
POSITION DESCRIPTION: System Services Lead					
VME (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	3 days		
Unix (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Local Area Network (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Demonstrated ability in Computer Systems Architecture	OJT	Upon Entry			
Detailed Knowledge of CLCS System Level Specification	OJT	Within 2 months			
1 yr. Project Mgmt. or OJT	OJT	Upon Entry			
Applied experience in NT Operating Systems	OJT	Upon Entry	1 year		
Applied experience in Real Time System Architecture	OJT	Upon Entry	2 years		
Applied experience in Real Time Operating Systems	OJT	Upon Entry	2 years		
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: System Services Engineers					
VME (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	3 days		
Unix (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Local Area Network (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Demonstrated ability in Computer Systems Architecture	OJT	Upon Entry			
Detailed Knowledge of CLCS System Level Specification	OJT	Within 2 months			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		

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	TYPE OF			RENEWAL DATE	SUPERVISOR
TITLE OF TRAINING	TRAINING REQUIRED	WHEN REQUIRED	DURATION	IF APPLICABLE	LEAD SIGN-OFF
POSITION DESCRIPTION: Operating System & Diagnostics Lea	d				
, , , ,					
VME (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	3 days		
Unix (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Local Area Network (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Demonstrated ability in Computer Systems Architecture	OJT	Upon Entry			
Detailed Knowledge of CLCS System Level Specification	OJT	Within 2 months			
1 yr. Project Mgmt. OJT	OJT	Upon Entry			
Applied experience in NT Operating Systems	OJT	Upon Entry	1 year		
Applied experience in OS & Network Security	OJT	Upon Entry	1 year		
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: O/S & Diagnostics Engineers					
VME (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	3 days		
Unix (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Local Area Network (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Demonstrated ability in Computer Systems Architecture	OJT	Upon Entry			
Detailed Knowledge of CLCS System Level Specification	OJT	Within 2 months			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: Data Distribution & Processing Lead					
VME (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	3 days		
Unix (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Local Area Network (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Demonstrated ability in Computer Systems Architecture	OJT	Upon Entry			
Detailed Knowledge of CLCS System Level Specification	OJT	Within 2 months			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		

	TYPE OF			RENEWAL DATE	SUPERVISOR
TITLE OF TRAINING	TRAINING REQUIRED	WHEN REQUIRED	DURATION	IF APPLICABLE	LEAD SIGN-OFF
POSITION DESCRIPTION: Data Distribution & Processing Engin	eers				
VME (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	3 days		
Unix (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Local Area Network (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Demonstrated ability in Computer Systems Architecture	OJT	Upon Entry			
Detailed Knowledge of CLCS System Level Specification	OJT	Within 2 months			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: Command & Control Lead					
VME (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	3 days		
Unix (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Local Area Network (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Demonstrated ability in Computer Systems Architecture	OJT	Upon Entry			
Detailed Knowledge of CLCS System Level Specification	OJT	Within 2 months			
Applied experience in design of Real Time Command & Control Systems	OJT	Upon Entry	2 years		
Applied experience in NT Operating Systems	OJT	Upon Entry	1 year		
Applied experience in Real Time Operating Systems	OJT	Upon Entry	1 year		
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: Command & Control Engineers					
VME (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	3 days		
Unix (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Local Area Network (Training or Demonstrated ability & knowledge)	Technical	Within 3 months	1 week		
Demonstrated ability in Computer Systems Architecture	OJT	Upon Entry			
Detailed Knowledge of CLCS System Level Specification	OJT	Within 2 months			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		

	TYPE OF			RENEWAL DATE	SUPERVISOR
TITLE OF TRAINING	TRAINING REQUIRED	WHEN REQUIRED	DURATION	IF APPLICABLE	LEAD SIGN-OFF
POSITION DESCRIPTION: Applications Software Chief					
Resident Mgmt. Ed. Program	Administrative	Within 6 months	1 week		
Management Education Program	Administrative	Within 1 year	1 week		
2 year Project Mgmt. OJT	OJT	Upon Entry			
Applied experience in Software Development Methodology	OJT	Upon Entry	3 years		
Applied experience in Design & Development Team Management	OJT	Upon Entry	3 years		
Shuttle Operations Experience	OJT	Upon Entry	3 years		
Trained in Object Oriented Design/Analysis, C/C++, and Java	Technical	Upon Entry			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: Real Time Control Application Produ	ıct Team				
Knowledge of CLCS Design	OJT	Within 1 month			
1 yr. of Launch Processing Applications Experience	OJT	Upon Entry			
1 Yr. Project Mgmt. or OJT	OJT	Upon Entry			
Sherill-Lubinski (SL) Training	Classroom	As soon as available	3 days		
Object Oriented Design/Analysis	Classroom	As soon as available	1 week		
Control Shell Training	Classroom	As soon as available	3 days		
UNIX Familiarization	OJT	Upon Entry			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: Integrated Product Team Leads and	System Engineers				
Expertise on Responsible System	OJT	Upon Entry			
Object Oriented Design/Analysis	Classroom	As soon as available	1 day		
DOORS Training	Classroom	As soon as available	2 days		
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours	_	

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	TYPE OF			RENEWAL DATE	SUPERVISOR
TITLE OF TRAINING	TRAINING REQUIRED	WHEN REQUIRED	DURATION	IF APPLICABLE	LEAD SIGN-OFF
POSITION DESCRIPTION: Integrated Product Team Software E	ngineers				
Object Objects I Desire (Asset objects	01	A	4		
Object Oriented Design/Analysis	Classroom	As soon as available	1 week		
C++ Programming	Classroom	As soon as available	1 week		
Advanced C++ Programming	Classroom	As soon as available	1 week		
LPS Familiarization	Classroom/OJT	Within 1 month	12 hours		
Sherill-Lubinski (SL) Training	Classroom	As soon as available	3 days		
ControlShell Training	Classroom	As soon as available	3 days		
Knowledge of CLCS Design	OJT	Within 1 month			
UNIX Training	Classroom	Upon Entry	1 week		
DOORS Training	Classroom	As soon as available	2 days		
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: Data Analysis & Presentation Lead					
Knowledge of CLCS Design	OJT	Within 1 month			
1 Year Launch Processing Experience	OJT	Upon Entry			
1 Year Project Management or OJT	OJT	Upon Entry			
Java Programming	Classroom	As soon as available	1 week		
Object Oriented Design/Analysis	Classroom	As soon as available	1 week		
C++ Programming	Classroom	As soon as available	1 week		
1 Year LPS Data Retrieval	OJT	Upon Entry			
Web Browser Familiarization	OJT	Upon Entry			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: Data Analysis & Presentation Softwa	re Engineers				
Knowledge of OLOO Besign	O IT	Mithin A market			
Knowledge of CLCS Design	OJT	Within 1 month			
Java Programming	Classroom	As soon as possible	1 week		
Object Oriented Design/Analysis	Classroom	As soon as possible	1 week		
C++ Programming	Classroom	As soon as possible	1 week		
Web Browser Familiarization	OJT	Upon Entry			
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		

	TYPE OF			RENEWAL DATE	SUPERVISOR
TITLE OF TRAINING	TRAINING REQUIRED	WHEN REQUIRED	DURATION	IF APPLICABLE	LEAD SIGN-OFF
POSITION DESCRIPTION: Simulation Lead					
<u> </u>					
Knowledge of CLCS Design	OJT	Within 1 month			
1 Year Launch Processing Experience	OJT	Upon Entry			
1 Year Project Management or OJT	OJT	Upon Entry			
Java Programming	Classroom	As soon as available	1 week		
Object Oriented Design/Analysis	Classroom	As soon as available	1 week		
C/C++ Programming	Classroom	As soon as available	1 week		
1 Year LPS Simulation Experience	OJT	Upon Entry			
X/Motif Training	Classroom	As soon as available	1 week		
UNIX Training	Classroom	As soon as available	1 week		
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: Simulation Engineers					
Knowledge of CLCS Design	OJT	Within 1 month			
LPS Familiarization	Classroom/OJT	Within 1 month	12 hours		
Java Programming	Classroom	As soon as available	1 week		
Object Oriented Design/Analysis	Classroom	As soon as available	1 week		
C/C++ Programming	Classroom	As soon as available	1 week		
LPS Simulation Familiarization	OJT	Upon Entry			
X/Motif Training	Classroom	As soon as available	1 week		
UNIX Training	Classroom	As soon as available	1 week		
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		
POSITION DESCRIPTION: 3D Special Projects Engineer					
POSITION DESCRIPTION. 3D Special Projects Engineer					
Knowledge of CLCS Design	OJT	Within 1 month			
LPS Familiarization	Classroom/OJT	Within 1 month	12 hours		
Object Oriented Design/Analysis	Classroom	As soon as available	1 week		
C/C++ Programming	Classroom	As soon as available	1 week		
Multigen Training	Classroom	As soon as available	1 week		
Vega Training	Classroom	As soon as available	1 week		
UNIX Training	Classroom	As soon as available	1 week		
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		

## Checkout and Launch Control System (CLCS) Training Requirements

	TYPE OF			RENEWAL DATE	SUPERVISOR
TITLE OF TRAINING	TRAINING REQUIRED	WHEN REQUIRED	DURATION	IF APPLICABLE	LEAD SIGN-OFF
POSITION DESCRIPTION: Expert/Advisory Systems Special F	rojects Engineer				
Knowledge of CLCS Design	OJT	Within 1 month			
LPS Familiarization	Classroom/OJT	Within 1 month	12 hours		
Object Oriented Design/Analysis	Classroom	As soon as available	1 week		
C/C++ Programming	Classroom	As soon as available	1 week		
G2 Training	Classroom	As soon as available	1 week		
Lisp Training	Classroom	As soon as available	1 week		
UNIX Training	Classroom	As soon as available	1 week		
ControlShell Training	Classroom	As soon as available	3 days		
CLCS Orientation or familiarization with CLCS processes	Administrative/OJT	Within 4 months	2 hours		

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